

Product datasheet for **RR210537**

Farp1 (NM_001107287) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Farp1 (NM_001107287) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Farp1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210537 representing NM_001107287
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGAAATAGAGCAGAAGCCACCCAGCATCACGTCTGGGGCCCCAGAGAACTCGGGGATCAGCA
CCTTGGAAACGAGGACAGAAACCACCGCCACACCTTCAGGAAAATTATGACTGTCAAAAATCCAGATGCT
GGACGACACCCAGGAAGCCTTTGAAGTTCACACACGGGCACAGGAAGGTCCTCTTTGATGCTGTGTGC
AACCACTCAACCTTGTGGAGGGTACTTTCGGCCTGGAGTTCCTGACCACAGAAAGATCGTGGTGT
GGCTGGATCTTCTGAAGCCATTGTGAAGCAGATTCTGAAGGCCGAAGCACGTGCTTGTAAAGTTTGTGT
GAAATTCTCCCGCCGACCACACCAACTCCAGGAAGAATCACCAGGTACCTGTTTCGCCCTGCAGGTG
AAGCAGGACTTGGCTCAAGGCAGGCTGACGTGTAAACGACACCAGCGCGGCTCTTTGATCTCGCACATCG
TACAATCTGAGATTGGGATTTTCGACGAAGCTTTGGACAGAGAACAATAGCAAAAAATAAGTATGTACC
TCAACAGGATGCACTAGAAGACAAAATCGTGGAGTTCACCACAGCCACATTGGACAAAACCCGGCAGAG
TCAGATTTCCAGCTCCTGGAGGTGGCCCGTACTGGAGATGTATGGAATCCGGTTACACCTGCCAAGG
ACAGGGAAGGCACCAAGATCAACCTTGTGTGCGCAACACTGGAATTCTAGTGTTTCAGGGCTTCACGAA
GATCAATGCTTTAACTGGGCCAAGGTGCGGAAGCTGAGCTTCAAGCGGAAGCGTTTCTCATCAAGCTC
AGACCTGACGTGAACAGCTCGTACCAGGACACCTTGGAGTTCTGATGGCCGGTTCGAGACTTCTGCAAGT
CCTTCTGGAAGATATGTGTGGAACACCATGCTTCTTCAGACTCTTTGAAGAACCAAGCCAAAGCCAAA
GCCAGTTCTTTCAGCCGAGGGTCTGCTTCCGGTTTGTGGTGGACTCAGAAGCAAGTTCTTGACTAC
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TTGTCTCACAGCCACAGCACCGAATTCGGAAGTGCCAAAACAGTCTCCGCAGAGCGCCAGCCTTACGTT
CGGTGAAGGTACCGAGTCTCCAGTGCAGAGCTGCCAACAAGCAAGGAAACGAAAGTTTGTACCTTG
GAGCCTGGACCGGCCAAAGTCCCGCCTCTCTAAGAGCCCTTCAGGGAGCAAAGCTGCGGATGGAACCC
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GAGATTTCCAACCGACAAGGCATACTACATTGCTAAGGAAGTCTCCACCACAGAACGCACATACCTGAAG



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GATCTTGAGGTCATCGCTTCGTGGTTCCAGAGCACAGTCAGCAAAGAGGACTCCATGCCTGAAGCTTTGA
 AAAGTCTCATATTTCAAACCTCGAACCTTTGCACAAGTCCACACCAATTTTCTGAAGGAGATTGAGCA
 GCGTCTCGCCCTGTGGGAAGGCCGCTCAAACGCCACATCAGAGGAGATTACCAAAGAATCGGGGACGTC
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 CGTGGCAACACCATGGTGCACGTGTGCTGGCATCGCAGCACCAGCGTCTCCATGGTGGACTTCAGCATTG
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 TGCACTTCAAGTCCCACGTGACTACTTTCAGGGCTGAAAGCGAATACACATTTGAAAGGTGGATGGAAGT
 GATCCGAAGTGCCACCAGCTCGGCCTCTCGGGCCACAGCCTGAGTCACAAAGAATCTCACCTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210537 representing NM_001107287
 Red=Cloning site Green=Tags(s)

MGEIEQKPTPASRLGAPENSGISTLERGQKPPPTPSGKLMVTKIQMLDDTQEAFEVPPQAPGKVLFDVAV
 NHLNLVEGDYFGLFEPDHRKIVVWLDLLKPIVKQIRRPKHVLFVVKFFPPDHTQLQEELTRYLFFALQV
 KQDLAQGRLTCNDTSAALLISHIVQSEIGDFDEALDREHLAKNKYVPQDALEDKIVEFHSHIGQTPAE
 SDFQLLEVARRLEMYGIRLHPAKDREGTKINLAVANTGILVFQGFTKINAFNWAKVRKLSFKRKRFLIKL
 RPDVNSSYQDTLEFLMAGRDFCKSFWKICVEHHAFFRLFEPPKPKPKPVLSRGSFRFSGRTQKQVLDY
 VKEGGHKKVQFERKHSKIHSTRSLVSQPTAPNSEVPKQSPQSASLTFEGGTESPSAQSCQAKETKVCTL
 EPGPRQSPALSKSPSGSKAADGTAAAAPPEEEDDEEGGKDGIRPSNPQPQSTGSLTGSPHLSELSINS
 QGGAAPANVTLSPNLSPDNKQASPLISPLLDQACPRTDDEEGRKRFPDCKAYYIAKEVSTTERTYLK
 DLEVIASWFQSTVSKEDSMPEALKSLIFPNFEPLHKFHTNFLKEIEQRLALWEGRSNAHIRGDYQRIGDV
 MLKNIQGMKHLAAHLWKHSEALEALETSIKGSRRLEHFCDRFELQKVCYLPLNTFLLRPLHRLMHYKQVL
 ERLCKHPPNHADFRDCRAALAEITEMVAQLHGTMIKMFNFQKLHELKDLIGIDNLVIPGREFIRLGLSL
 SKLSGKGLQQRMFLLFNDVLLYTSRGLTASNQFKVHGQLPLYGMTIEESEEEWGVPHCLTLRGRQSIIV
 AASSRSEMEKWLEDIQMAIDLAEKSNQPTPELLASSPPDNKSPDEATAADQESEDDLASRSTSLERQAPH
 RGNTMVHVCWHRSTSVSMVDFSIAVENQLSGNLLRKFKNNGWQKLWVVFNFCLFFYKSHQDPSHLASL
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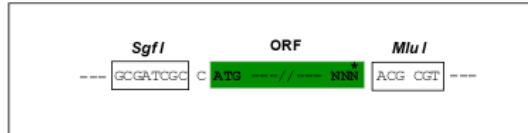
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

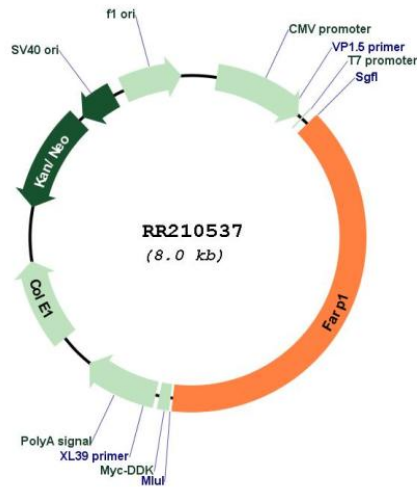
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001107287

ORF Size: 3147 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001107287.1 , NP_001100757.1
RefSeq Size:	4564 bp
RefSeq ORF:	3150 bp
Locus ID:	306183
UniProt ID:	F1LYQ8
Cytogenetics:	15q24
MW:	118.8 kDa
Gene Summary:	May play a role in semaphorin signaling (By similarity). Functions as guanine nucleotide exchange factor for RAC1. Plays a role in the assembly and disassembly of dendritic filopodia, the formation of dendritic spines, regulation of dendrite length and ultimately the formation of synapses.[UniProtKB/Swiss-Prot Function]